

V0.2 MAX (PVDF 0.2µm)

Sanitary MF High pH/Temp Membrane

MAX SANITARY ELEMENT OPERATING SPECIFICATIONS

| Pressure | PSI | Bar |
|--|-----|-----|
| Max. Inlet Pressure | 120 | 8.3 |
| Min. Outlet Pressure | 10 | 0.7 |
| Max. Differential Pressure per Element | 18 | 1.2 |
| Max. Permeate Backpressure | 5 | 0.3 |

NOTE: Soft start on boost pumps required to minimize pressure/flow shocks to elements.

| Temperature | Fahrenheit | Celsius |
|----------------------|------------|---------|
| Max. Operating | 140° | 60° |
| Max. CIP Temperature | 185° | 85° |

| pH Parameters | pH |
|----------------------|--|
| Operating Parameters | At Max Temp. - 3-10 At Ambient Temp. - 2-10.5 |
| Cleaning Parameters | At Max Temp. - 2-11 At Ambient Temp. - 2-12 |

| Chlorine | Norm. ppm | Max. ppm |
|---|-----------|----------|
| Free Chlorine in DF Water or Product | 0 | < 0.1 |
| Chlorine during CIP at: pH 10.8-11.0 and 50°C (PES/PVDF) pH 10.5 and 50°C (PAN) | 150 | 180 |

NOTE: Maximum chlorine exposure for all elements is 30 minutes per day at pH and temperature conditions listed above.

MAX SERIES BENEFITS

- Conforms to 3-A, FDA, and USDA sanitary standards
- Hot sanitization eliminates chlorine during CIP
- High resistance to pH and temperature
- High resistance to fouling
- Customizable dimensions for unique housings

| Dairy Product Total Solids Limits | Spacer (in mils) | | | |
|-----------------------------------|------------------|----|----|----|
| Products | 31 | 46 | 65 | 80 |
| Sweet Whey Max. T.S. | 15 | 25 | 28 | 30 |
| Acid Whey Max. T.S. | 15 | 24 | 26 | 28 |
| Skim Milk Max. T.S. | 14 | 24 | 26 | 28 |
| Whole Milk Max. T.S. | 15 | 30 | 33 | 35 |

NOTE: Trials should be made to determine temperature and viscosity effects. Ribbed spacers are also available for high solids applications.



CONTACT US

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All inquiries will be responded to by a Snyder employee personally within 24 hours.



ELEMENT DIMENSIONS

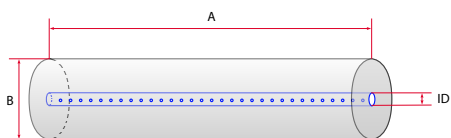
| Element | Model No. | Diameter (B) in | Length (A) in | P.W.T. ID |
|---------|-----------|-----------------|---------------|-----------|
| 1.8" | 1812F | 1.8 | 12 | 0.63 |
| | 2519 | 2.5 | 19.25 | 0.63 |
| 2.5" | 2540F | 2.5 | 40 | 0.63 |
| | 2540M* | 2.5 | 38 | 0.75* |
| | 3838 | 3.8 | 38 | 0.83 |
| 3.8" | 3838.75 | 3.8 | 38.75 | 0.83 |
| | 3850 | 3.8 | 50 | 0.83 |
| | 3938.75 | 4.0 | 38.75 | 0.63 |
| | 4333 | 4.3 | 33 | 0.83 |
| | 4335 | 4.3 | 35 | 0.83 |
| 4.3" | 4335.5 | 4.3 | 35.5 | 0.83 |
| | 4336 | 4.3 | 36 | 0.83 |
| | 4338 | 4.3 | 38 | 0.83 |
| 5.8" | 5838 | 5.8 | 38 | 1.14 |
| 6.3" | 6338 | 6.3 | 38 | 1.14 |
| | 6324 | 6.3 | 24 | 1.14 |
| 6.4" | 6438 | 6.4 | 38 | 1.14 |
| | 6424 | 6.4 | 24 | 1.14 |
| 7.8" | 7838 | 7.8 | 38 | 1.14 |
| | 7824 | 7.8 | 24 | 1.14 |
| | 8038 | 8.0 | 38 | 1.14 |
| | 8040 | 8.0 | 40 | 1.14 |
| 8" | 8238 | 8.2 | 38 | 1.14 |
| | 8240 | 8.2 | 40 | 1.14 |
| | 8338 | 8.3 | 38 | 1.14 |
| | 8340 | 8.3 | 40 | 1.14 |
| 9" | 9838 | 9.8 | 38 | 1.14 |
| 10" | 10338 | 10.3 | 38 | 1.14 |

*1" permeate tube extensions (0.75" OD)

RECOMMENDED ELEMENT CROSS FLOW RATE

| Element | | Feed Spacer (in mils) | | | | |
|---------|--------------------|-----------------------|-----|-----|-----|-----|
| | | 24 | 31 | 46 | 65 | 80 |
| 1.8" | m ³ /hr | 1 | 1 | 1 | 2 | 2 |
| | gpm | 4 | 5 | 6 | 7 | 7 |
| 2.5" | m ³ /hr | 2 | 2 | 3 | 3 | 3 |
| | gpm | 9 | 10 | 11 | 12 | 13 |
| 3.8" | m ³ /hr | 5 | 6 | 7 | 8 | 8 |
| | gpm | 22 | 25 | 29 | 33 | 35 |
| 4.3" | m ³ /hr | 6 | 7 | 9 | 10 | 10 |
| | gpm | 29 | 32 | 38 | 44 | 46 |
| 5.8" | m ³ /hr | 12 | 13 | 16 | 18 | 19 |
| | gpm | 51 | 59 | 69 | 78 | 83 |
| 6.3" | m ³ /hr | 15 | 17 | 20 | 22 | 24 |
| | gpm | 65 | 74 | 88 | 99 | 105 |
| 8" | m ³ /hr | 21 | 24 | 29 | 33 | 35 |
| | gpm | 94 | 107 | 128 | 143 | 154 |
| 10" | m ³ /hr | 42 | 48 | 57 | 64 | 68 |
| | gpm | 184 | 213 | 250 | 283 | 299 |

The recommended cross flow rate will be subject to differential pressure limitations and specific



Membrane Model → V0.2-2B-6338-MAX

| Spacer Size | Model No. |
|----------------|-----------|
| 24mil | 1 |
| 31mil | 2 |
| 46mil | 3 |
| 46mil (ribbed) | 3P |
| 65mil | 4 |
| 80mil | 5 |
| 80mil (ribbed) | 5P |

Outerwrap
 A = Control Bypass with Tail
 B = Control Bypass without Tail

MEMBRANE AREA (SQ FT)

| Element | Model No. | Feed Spacer (in mils) | | | | |
|---------|-----------|-----------------------|-----|-----|-----|-----|
| | | 24 | 31 | 46 | 65 | 80 |
| 1.8" | 1812F | 4.3 | 3.6 | 2.9 | 2.1 | 1.8 |
| | 2519 | 15 | 13 | 10 | 8 | 7 |
| 2.5" | 2540M | 34 | 29 | 22 | 17 | 15 |
| | 2540F | 35 | 30 | 23 | 18 | 16 |
| | 3838 | 85 | 72 | 58 | 46 | 38 |
| 3.8" | 3838.75 | 86 | 74 | 59 | 47 | 39 |
| | 3850 | 100 | 84 | 70 | 52 | 46 |
| | 3938.75 | 102 | 89 | 69 | 53 | 47 |
| | 4333 | 99 | 86 | 66 | 53 | 44 |
| | 4335 | 105 | 91 | 71 | 56 | 47 |
| 4.3" | 4335.5 | 107 | 93 | 72 | 57 | 48 |
| | 4336 | 108 | 94 | 73 | 58 | 49 |
| | 4338 | 115 | 100 | 77 | 62 | 52 |
| 5.8" | 5838 | 210 | 184 | 147 | 114 | 96 |
| 6.3" | 6324 | 150 | 134 | 107 | 83 | 70 |
| | 6338 | 246 | 220 | 176 | 136 | 115 |
| 6.4" | 6424 | 157 | 140 | 112 | 83 | 74 |
| | 6438 | 258 | 230 | 184 | 136 | 122 |
| 7.8" | 7824 | 242 | 210 | 166 | 132 | 110 |
| | 7838 | 396 | 344 | 273 | 216 | 180 |
| | 8038 | 414 | 368 | 287 | 225 | 189 |
| | 8040 | 414 | 368 | 287 | 225 | 189 |
| 8" | 8238 | 441 | 384 | 302 | 238 | 201 |
| | 8240 | 441 | 384 | 302 | 238 | 201 |
| | 8338 | 450 | 400 | 311 | 245 | 207 |
| | 8340 | 450 | 400 | 311 | 245 | 207 |
| 9" | 9838 | N/A | 564 | 440 | 351 | 296 |
| 10" | 10338 | N/A | 620 | 492 | 386 | 326 |

TECHNICAL NOTES

For element sizes not listed, please call or email Synder Filtration for details. We can design an element to fit your exact needs - just specify the element outer diameter (OD) or vessel/housing inner diameter (ID), element inner diameter (ID), and length. Elements are available with or without a controlled bypass tail. Trials should be conducted to determine optimal application conditions.

ELEMENT WEIGHT

| Model No. | Weight (lb) | Weight (kg) |
|-----------|-------------|-------------|
| 1812F | 1 | 0.5 |
| 2519 | 2 | 0.9 |
| 2540F | 4 | 1.8 |
| 2540M | 4 | 1.8 |
| 3838 | 10 | 4.5 |
| 3838.75 | 10 | 4.5 |
| 3850 | 13 | 5.9 |
| 3938.75 | 10 | 4.5 |
| 4333 | 11 | 5.0 |
| 4335 | 11 | 5.2 |
| 4335.5 | 11 | 5.2 |
| 4336 | 11 | 5.2 |
| 4338 | 12 | 5.4 |
| 5838 | 15 | 7.0 |
| 6338 | 16 | 7.0 |
| 6324 | 17 | 7.7 |
| 6438 | 29 | 13.2 |
| 6424 | 18 | 8.2 |
| 7838 | 40 | 18.2 |
| 7824 | 26 | 11.8 |
| 8038 | 38 | 17.2 |
| 8040 | 39 | 17.7 |
| 8238 | 38 | 17.2 |
| 8240 | 40 | 18.0 |
| 8338 | 40 | 18.0 |
| 8340 | 40 | 18.0 |
| 9838 | 42 | 19.1 |
| 10338 | 50 | 22.7 |